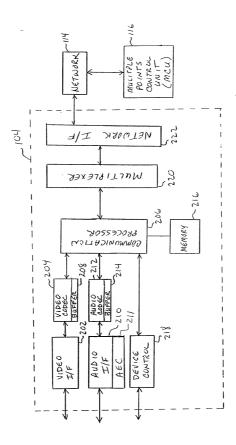
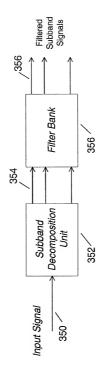
Attorney Docket No.: First Inventor: Title:

M.4299 US Werenkidong Ving Adaptive Thresholds in Acoustic Echo Canceller for Uses During Double Talk

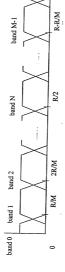
F 13. 1



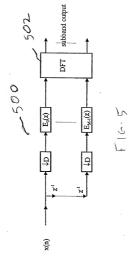
16.2

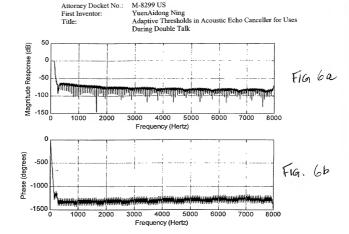


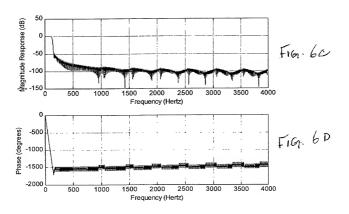
ig. 3a



16.4



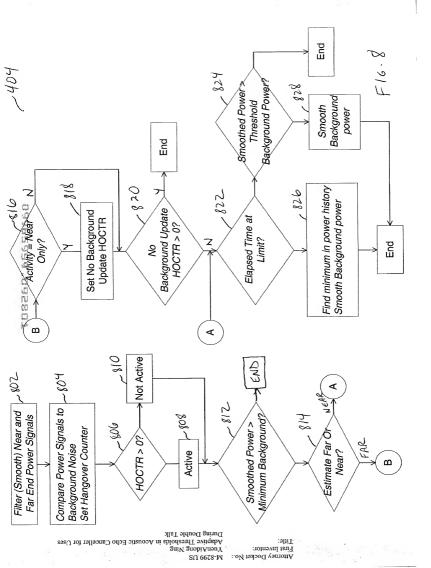


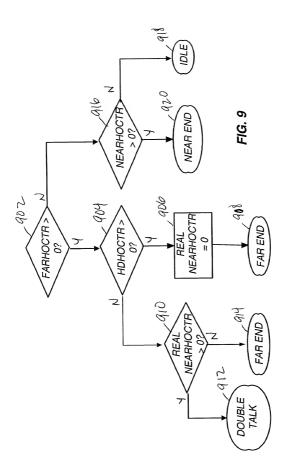


M-8299 US YuenAidong Ying YuenAidong Ying During Double Talk

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Attorney Docket No.: First Inventor: Title:





Yuenkidong Ning Adaptive Thresholds in Acoustic Echo Canceller for Uses During Double Talk

Attorney Docket No.: M-8299 US First Inventor: YuenAidong Title: Adaptive Th

Attorney Docket No.: M-8299 US YuenAidong Ning First Inventor: Adaptive Thresholds in Acoustic Echo Canceller for Uses Title: During Double Talk Activity=FAR ONLY? dtkfact=1.0 dtkfact=1.2 desfact=0.0 desfact=0.5 tt1 = (0.75*\(\sum_{\text{cancelpwr}[m]}\) - \(\sum_{\text{Sub_soutpwr}[n]}\) * dtkfact
all addards first 3 subbands demdethresh_full = smoothed tt1 dtkdeadb = demdethresh_full*desfact demthreshinv = 1/((1-desfact)*demdethresh_full) $tt2 = \Sigma sub_soutpwr[n]$ noutsumlp = smoothed tt2 Activity=DOUBLETALK2 attenuate each subband signal by a ratio r r = sub_soutpwr[m] / cancelpwr[m] and r has a boundary (Fig.9) smooth output sample to estimate demlev demlev = smoothed |sendout sample| N demlev<demdethresh_full2 Activity=FAR ONLY? output sample * (demthreshinv *

output sample * (demthreshinv * max(0,demlev-dtkdeadb))

output samples

F16.11

max(0,min(noutsumlp,demdethresh_full) -

dtkdeadb))